L 7686<u>-</u>65 EWP(1)/T ACC NR. 1 P6000908 SOURCE CODE: CZ/0043/65/000/001/0013/0020 AUTHOR: Garaj, J. Garay, Ya. (Engineer; Candidate of sciences; Bratislava) Gazo, J. Gazho, Ya. (Doctor-Engineer, Candidate of sciences) (Bratislava) ORG: Department of Inorganic Chemistry, Slovak Technical University, Bratislava (Katedra anorganickej chemie Slovenskej vysokej skoly technickej) TITLE: Problem of validity of Peyron's and Jorgen's rule for complex compounds of copper (II) Chemicke zvesti, no. 1, 1965, 13-20 TOPIC TAGS: thiocyanate, copper compound, isomer, stoichiometry, ammonia ABSTRACT: Preparation of isomers with a stoichiometric formula Cu(SCN)2(NH3)2 as a function of the operating conditions was investigated. They may be produced from solutions where the SCN ligand is substituted by an ammonia molecule, or using a solid state reaction where ammonia ligands are replaced by a sulfocyanate group. From solutions the trans-isomer is formed. Thermal decomposition produces the isomer di-sulfocyanate-Gu(II)-complex beta-Cu(SCN)2(NH3)2 . There is no complete analogy between Cu++ and Pt++ in the forming of complexes. Orig. art. has: 5 figures, 1 table. [JPRS] 07 / SUBM DATE: 10Jul64 / ORIG REF: 010 / OTH REF: 004 / SOV REF: 002 Card 1/1

L 34674-66 EWP(j) ACC NR: AP6025864 SOURCE CODE: CZ/0043/65/000/008/0593/0603 AUTHOR: Garaj. Jan-Garay, Ya. (Engineer; Candidate of sciences; Bratislays); Gazo, Jan-Gazho, Ya. (Docent, Engineer; Candidate of sciences Aratislava) ORG: Department of Inorganic Chemistry, Slovak Technical University, Bratish (Katedra anorganickej chemie Slovenskej vysokej skoly technickej) TITIE: System CuSO sub 4 - (NH sub 4) sub 2 CO sub 3 - NH sub 3 - NH sub 4 SCN -H sub 2 0 (I). Substances eliminated from the system as solids SOURCE: Chemicke zvesti, no. 8, 1965, 593-603 TOPIC TAGS: coppor compound, ammonium compound, analytic chemistry Isomolecular solutions with a total concentration of ABSTRACT: Isomotecular solutions with a total conditions of components equal to 0.05M were investigated; conditions of the complex salt Cu(SCN)<sub>2</sub>(NH<sub>3</sub>)<sub>2</sub> were determined. When the respective amounts of components were changed the following salts were produced: 2CuSO1.3Cu(OH)2; CuSO1.3Cu(OH)2; CuCO3.Cu(OH)2; and Cu(SCN)2 (NH3)2. Two forms of CuSCN were observed. In the presence of ammonium carbonate the colored form is produced; in its absence the white form. Ratio of copper ions to carbonate ions was varied from 1:1 to 1:4; at low ratios cupric thiocyanate with 4 NH3 is formed; at high ratios Gu2(SGN)3 (NH3)3 and Gu3(SGN)4 (NH3)4 is formed. The general formula of these complexes is Gu(SGN)2(NH3)2. n Gu(SGN)(NH3); salts where n = 0, and 2 were prepared. Grig. art. has: 13 figures. [JRS] SUB CODE: 07 / SUBM DATE: 10Mar65 / ORIG REF: 006 / OTH REF: 009 Card 1/1 LS

32889-66 [...r(j) ACC NR: AP6023836 SOURCE CODE: CZ/0043/65/000/009/0673/0678 AUTHOR: <u>Macaskova, Lubov</u>—Matsashkova, L. (Graduate chemist; Bratislava); Gazo, Gazo, Doctor; Engineor; Candidate of sciences; Bratislava) ORG: Department of Inorganic Chemistry, Slovak Technical University, Bratislava (Katedra anorganickej chemie Slovenskej vysokej skoly technickej) TITLE: Complexes of Cu sup II and Co sup II chlorates in acetone solutions SOURCE: Chemicke swesti, no. 9, 1965, 673-678 TOPIC TAGS: intermolecular complex, spectrophotometric analysis, absorption band, solution kinetics, chloride, chlorate ABSTRACT: The study of the complexes was made by spectrophoto-metrical analysis. The complexes are mixtures of chlorides and chlorates. When NaClO3 is added to a solution of CuCl2 in acetone and the system of complexes CuCl2-NaClO3-CH3.CO.CH3 is formed, the absorption curve in the visible band does not change; there is only an increase of the intensity of absorption. The chlorate groups may provide the ligands in the complexes and replace acetone in this function; the complexes have several components and are relatively stable. A new absorption band for Cochlorates at a maximum of 592 nm was found. At the same time **Card** 1/2

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a change of the absorption band of chlorate-cobalt complexes in acetone at about 662 nm was observed; it consists of the increase in the length of the waves. Orig. art. has: 6 figures. /JPRS							0
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SOURCE CODE: CZ/0043/65/000/011/0826/0832 L 33689-66 EWP(j) ACC NRI AP6024205 AUTHOR: Gazo, Jan-Gazho, Ya. (Docent; Engineer; Candidate of sciences; Bratislava) ORG: Department of Inorganic Chemistry, Slovak Technical University, Bratislava (Katedra anorganickej chemie Slovenskej vysokej skoly technickej) TITIE: Clarification of oxidation-reduction changes in oupric complexes resulting from interactions of their ligands SOURCE: Chemicke swest1, no. 11, 1965, 826-832 TOPIC TAGS: redox reaction, chemical bonding, reaction mechanism, pi bonded organometallic compound, complex molecule The oxidation-reduction changes in cupric complexes may be explained by the interaction of their ligands. The ligands in the trans position have a different tendency to form sigma bonds (with a lowered polarity He 12-X) than dative pi bonds with the central atom. The increased tendency of one ligand to form a dative pi bond with the central atom occurring simultaneously with the tendency of another trans-ligand to form a sigma bond with the central atom can result in the oxidation of the ligand, causing a The sigma bond favors the shifting reduction of the central atom. of bond electrons towards the center atom. Orig. art. has: 3 figures. [JPRS] SUB CODE: 07 / SUBM DATE: 26Jun65 / ORIG REF: 003 / SOV REF: 004 / OTH REF: 008 1856 Card 1/1 80

41669-66 EWP(1)/EMP(t)/ETI TUP(E ACC NRI AP6031199 SOURDE: CZ/0043/66/000/003/0196/0201 AUTHOR: Garaj, Jan-Garay, Ya. (Engineer; Candidate of sciences; Bratislava); 4 Gazo, Jan-Gazio, Ya. (Docent; Engineer; Candidata of sciences, Brutislava) Department of Inorganic Chemistry, SVST, Bratislava (Katelra anorganickej chemie ORG: SVST) TITLE: System CuSo sub 4-NH sub 3-(NH sub 4) sub 200 sub 3-NH sub 4SCN-H sub 2 0 (II) Study of the solutions from the point of view of physical chemistry SCURCE: Chemicke zvesti, no. 3, 1966, 196-201 TOPIC TAGS: spectrophotometry, copper compound, thiocyanate ABSTRACT: The system was investigated by spectrophotometry in the region of visible spectrum. Thio cyanate and carbonate groups in this system show a great tendency to enter the inner sphere of the cupric complexes, where they substitute for ammonia, forming a complex with a mole ratio Cu++: CO3 approx. 1:1. It appears that the precipitation of the complex trans-Cu(SCN)2(NH3)2 out of these solutions is not connected to the mechanism of substitution reactions but to its low solubility in these media. Orig. art. has: 5 figures. /JPRS: 36,002/ SUB CODE: 07 / SUBM DATE: Oljul65 / ORIG REF: 003 / SOV REF: 005 / OTH REF: 001 Card 1/1

_	L 41671-66 EMP(1) RM	ACC 1227-007
	ACC NR: AP6031203 SOURCE CODE: CZ/0043/68/000/003/0212/0221	14. A
	AUTHOR: Gazo, Jan-Gazho, Y. (Doctor; Engineer; Candidate of sciences) 29	
	OHG: Department of Inorganic Chemistry SVST Bratislava (Katedra anorganickej	
	TITIE: Problem of isomers of complex cupric compounds	
	SCHRUE: Chemicke zvesti, no. 3, 1966, 212-221	
'	TOPIC TAGS: copper compound, complex molecule, isomerization	
	ABSTRACT: The preparation and properties of isomers of cupric complexes are described and the theory of isomerization of these complexes is discussed. A new isomer of CuBr <sub>2</sub> (NH <sub>3</sub> ) <sub>2</sub> is evaluated. Existence of compounds CuX <sub>2</sub> A <sub>2</sub> and CuX <sub>4</sub> A <sub>2</sub> (where X is Br or Cl, and A is NH <sub>3</sub> ) is discussed. [JPRS: 36,002]	
	SUB CODE: 07 / SUBM DATE: 120ct65 / ORIG REF: 012 / SOV REF: 007 OTH REF: 010	
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L 44628-66 EWP(j) RM ACC NR: AP6033249 SOURCE CODE: CZ/0043/66/000/002/0105/0114 AUTHOR: Kompisova, Zuzana -- Kompishova, Z. (Graudate chemist; Bratislava); Gazo, Jan--Gazho, Ya. (Docent; Engineer; Candidate of sciences; Bratislava) B ORG: Department of Inorganic Chemistry, Slovak Technical University, Bratislava (Katedra anorganicke chemie Slovenskej vysokej skoly technickej) TITIE: Potentiometric and conductometric investigation of chlorocupric and bromocupric complexes in acetone SOURCE: Chemicke zvesti, no. 2, 1966, 105-114 TOPIC TAGS: spectrophotometric analysis, organocopper compound, complex molecule ABSTRACT: The following systems were studied: CuCl<sub>2</sub>.2H<sub>2</sub>O-LiCl-CH<sub>3</sub>.GO.GH<sub>3</sub>; Cu(NO<sub>3</sub>)<sub>2</sub>.3H<sub>2</sub>O-LiCl-CH<sub>3</sub>.CO.GH<sub>3</sub>; Cu(C O<sub>[1</sub>)<sub>2</sub>.6H<sub>2</sub>O-LiCl-CH<sub>3</sub>.GO.GH<sub>3</sub>; Cu(NO<sub>3</sub>)<sub>2</sub>.3 H<sub>2</sub>O-LiBr-CH<sub>3</sub>.GO.GH<sub>3</sub>; and Cu(ClO<sub>[1</sub>)<sub>2</sub>.6H<sub>2</sub>O - LiBr-CH<sub>3</sub>.GO.GH<sub>3</sub>; and Cu(ClO<sub>[1</sub>)<sub>2</sub>. Potentiometric and conductivity measurements were compared to results obtained by spectrophotometry. The complexes are formed with the Cupric ion ratio to that of chlorine or bromine ion being 1:3 or 1:4. The nitrate group enters into the inner part of these complexes. The stability of the complexes depends on the oxidation and reduction reactions taking place. Potentiometric curves are influenced by the presence of nitrate groups.

Orig. art. has: ll figures. [JPRS: 36,002] SUB CODE: 07 / SUBM DATE: 24Mar65 / ORIG REF: 007 / SOV REF: 001 / OTH REF:

CIA-RDP86-00513R000514530010-2"

**APPROVED FOR RELEASE: 07/19/2001** 

GALO, M.

HECKO, I., zapovedny vyskimny pracovnik; SINTAJ, M.; HLAVATY, J.; KUKURA, J.; LIPKOVA, V.; SEVCIKOVA, A.; GRUNT, J.; GAZO, M.; MULLER, M.; VALASEK, V.

Prevention of infections in nurseries. Bratisl. lek. listy 34 no.9: 1021-1045 Sept 54.

1. Z Krajskeho detskeho ustavu narodneho sdravia v Bratislave, riaditel dr. A. Movak (for Hecko, Sintaj, Hlavaty) 2. 3 Hygienickeho ustavu LFSU v Bratislave, prednosta akademik V. Much, a z Ustavu hygieny, oblastneho ustavu pre Slovenko v Bratislave, riaditel doc. dr. P.Macuch (for Kukura, Lipkova, Sevcikova, Grunt) 3. Z Ustavu pre vyskum vysivy ludu v Bratislave, prednosta dr. A.Bucko. (for Gazo, Muller) 4. Z Vyskumeho ustavu epidemiologie a mikrobiologie v Bratislave, riaditel dr. J. Karolcek, s oddelenia pre parazitologiu, prednosta dr. M.Dziuban. Spolupracovnici: a) z detskej kliniky: M.Krupska a skupina medikov (v ramci studentskej tvorimosti), V.Bohmerova, M.Gernacek, V.Kovac, D.Krivosova, M.Lickova, t.c. us doktori mediciny. Pred zaciatkom vyskumnej prace riaditel KUNZ dr. A. Novak vykonal instruktas medikov: b) z Hygieniko-epidemiologicje stanice UNV Bratislava M. Zatkova c) z jasiel 1. na Blahovej ulici c.4.: M.Hlebakova (veduca sestra). J.Benedekova, G.Skotnarova, A.Nozkova, M.Lukovicova, H.Oriskova, V.Feherova; 2. na Feriencikovej ulici c. 6: H.Nemcekova (veduca sestra), M.Slobodova, N.Dobrotkova, A.Macenauerova, B.Stabelova. (Continued on next card)

HECKO. I., sapovedny vyskimny pracovník; SINTAJ, M.; HLAVATY, J.; KUKURA,J.; LIPKOVA, V.; SEVCIKOVA, A.; GRUNT, J.; GAZO, M.; MULLER, M.; VALASEK, V.

Prevention of infections in nurseries. Bratisl. lek. listy 34 no.9: 1021-1045 Sept 54 (Card 2)

d)s Hygienickeho ustavu IPSU a z Ustavu hygieny: O.Cikova, K.Rozholdova, L.Haragova, M.Jurcova, T.Orthova; e)z Ostavu pre vyskum vyzivy ludu: M.Popik, A.Kohutova, L.Sintajova, M.Krcnava; P.Ambrova, J.Kollarik, M.Asstalosova.

(COMMUNICABLE DISEASES, in infant and child, prev. in nurseries)
(IMPANTS,
nurseries, prev. of communicable dis.)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000514530010-2"

GA20, MIK.	44. A 5	
	CZECH	
	C 7 F. [17]  D Stabilizers of vitamin C. Mikulii Gato. Princyal Potra- rin 6, 92-4(1986).—Review with 28 references. L. J. U.	

GAZO, M.

G\_ECHOSLOVAKIA/Farm Animals - Cattle.

Q-3

Abs Jour

: Ref Zhur - Biol., No 1, 1958, 2571

Author

: L. Landau, M. Gazo

Inst Title On the Problem of Calcium and Phosphorus Content in Cows

During One Year Depending on Their Nutrition.

Orig Pub

: Veterin. cazor. 1956, 5, No 6, 403-422 (Slovak)

Abstract

: For the duration of one year, the Ca and P content was observed in the milk and blood serum of two groups of cows (14 cows in each group). Cows which received rich rations produced a milk yield of 12.7 liters on an average a day. The Ca content was 111.2 milligrams/100 milliliters. Cows on restricted rations and a milk yield of 11.5 liters showed a Ca content of 103.9 milliliters/100 milligrams. The respective content of P was: 87.1 milligrams/100 milliliters, and 88.1 milligrams/100 milliliters. The Ca

Card 1/2

CZECHOSLOVAKIA / Chemical Technology. Chemical Products and Their 1-30 Application. Food Industry.

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, 10328

Author : Gazo, M. and Ginter, E.

Title : The Stabilizing Effect of Milk on Vitamin C.

Orig Pub : Prumysl. potravin, 1956, Vol 7, No 6, 269-271

Abstract : The effect of various amounts of milk and whey on the stabi-

lity of 1-ascorbic acid solutions in distilled and in drinking water during the preparation of various foods has been investigated. It has been established that the addition of 10-20% of milk or of whey results in a marked decrease in the loss of ascorbic acid. The vitamin C stabilising effect of milk has been demonstrated in many sauces rich in vitamin C. The author outlines the basic principles of the application of milk as a vitamin C stabiliser in the food processing

industry.

Card : 1/1

J. 4776

GAZO, Mikulas, inz.; VANCIKOVA, Ruzena J., inz.

Experimental biological test of D vitamin content in individual feeds. Vestnik vyzk zemedel 9 no.11:518-519 '62.

1. Vyskumhy ustav pre chov hydiny, Ivanka pri Dunaji.

PETER, V., inz., C.Sc.; GAZO, Mikulas, inz., C.Sc.; MARCINKA, K., inz.

Experiment with eggshell quality improvement by enrichment of feeds. Vestnik vyzk zemedel 9 no.11:520 '62.

1. Vyskumny ustav pre chov hydiny, Ivanka pri Dunaji.

GA20, Mikulas, inz., Sc.C.; KLIMES, Bedrich, MVDr., Sc.C.

Effect of the parasites on vitamin A resorption in poultry. Pt. 1.

Vest vyzk zemedel 9 no.12;551-552 '62.

1. Vyskumny ustav pre chov hydiny, Ivanka pri Dunaji.

CZECHOSLOVAHIA

GAZO, M.; SLADKA, M.; LANDAU, L.; Poultry Research Institute, Institute of Experimental Biology, Slovak Academy of Sciences (Vyzkumny Usbav pre Chov Hydiny, Ustav Experimentalnej Biologie SAV), Ivanka pri Dunaji.

"Storago of Vitamin A in Newborn Chickens."

Prazue, Jeskoslovenska Fysiologie, Vol 15, No 5, Sep 66, pp 373 - 374

Abstract: The chickens were given a massive dose of vitamin A scaled in a cometric proportion between 500 and 32000 int. units. They were fed for 36 hours ad libitum, then starved for 12 hours, then killed and the content of vitamin A determined. The amount of the vitamin found corresponded to the logarithm of 59% of the vitamin was stored in the liver. 1 Figure, no references. Submitted at 3 Days of Physiology of Domestic Animals at Liblice, 9 Dec 65.

CZECHOSLOVAKIA

GAZO, M.; SLADKA, O.; KOCI, St.; Poultry Research Institute, Institute of Experimental Biology, Slovak Academy of Sciences (Vyzkumy Ustav pre Chov Hydiny, Ustav Experimentalnej Biologie SAV), Ivanka pri Dunaji.

"The Influence of Varying Levels of Proteins in the Diet on the Exhaustion of Stored Vitamin A."

Prague, Ces'toslovenska Pysiologie, Vol 15, No 5, Sep 66, p 374

Abstract: Experiments were conducted on chickens 1 to 20 days old. The chickens received a massive dose of vitamin A and then were fed for 20 days with the same amount of food, but with varying amounts of proteins. One kind of food contained 26% N substances, the other only 13%. No difference in the amount of vitamin A stored in the body was found between the two groups. No references. Submitted at 3 Days of Physiology of Domestic Animals at Liblice, 9 Dec 65.

1/1

- 99 -

HUNGARY

FIAM, Bela, Dr. physician-lieutenant colonel, cand. of med., technical assistant: GAZSO, Margit: [affiliations not given].

"Experimental Thrombosis: Static Coagulation Studies Using the Serum of Normal Rabbits and Rabbits with 1700 r Whole Body Irradiation."

Budapest, Honvedorvos, Vol XVIII, No 2, Apr-Jun 66, pages 127-131.

Abstract: [Authors' Hungarian summary] By using isolated mesenterial segments of rabbits, the following was demonstrated. 1) Normal contact rabbit serum does not possess any thrombus-inducing, so-called "AP" effect. 2) Contact rabbit serum can be activated with kaolin and the AP formed is capable of static thrombus formation within the recipient animal. 3) In animals subjected to whole body irradiation with 1700 r, the serum retains its caolin activation and thrombus forming ability unchanged, 96 hours after the irradiation; no damage within the AP system is caused by the irradiation. This points to the fact that the contact system does not play any role in the development of the early coagulation disturbance. 7 Hungarian, 2 Western references.

1/1

GAZODOVA, G. YE., ZAL'NOVA, N. S., MASHLOVSKIY, SH. D., FASTOVSKAYA, E. I., CHURNOSOVA, A. A., SERGIYEV, P. G., STAVROVSKAYA, V. I., LYSENKO, A. L., FRAUSE, M. B., GLADKIKH, V. F., ZHUKOVA, T. A.

"Quinocide and the prospects of acceleration of the malaria eradication rate in the USSR."

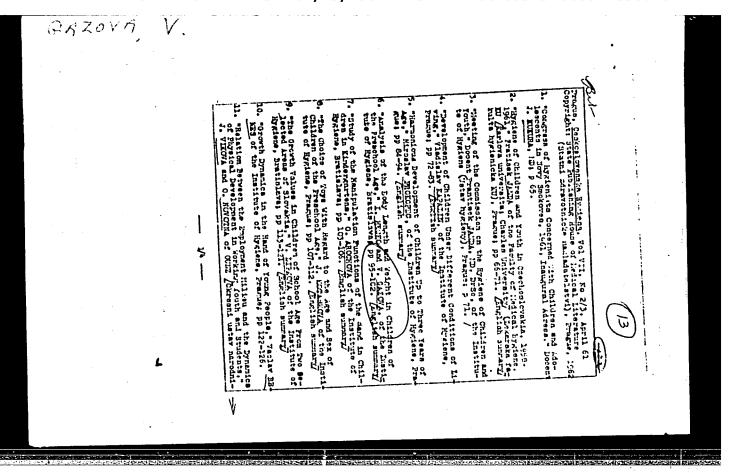
report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

GAZOLA, J.

"Construction of a simple device for measuring."

p. 30 (Radioamator) Vol. 6, no. 12, Dec. 1956 Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958



HECKO, I.; GAZOVA, V.

Analysis of body length and weight in children of the preschool age. Cesk. hyg. 7 no.2/3:95-102 '62.

1. Ustav hygieny, Bratislava.
(BODY HEIGHT in inf & child) (BODY WEIGHT in inf & child)

EHAZANOV, A.I. (Moskva, Novopeschanaya, d. 3, kv. 49); GAZOVA, Z.A. (Noskva, Sushchevskiy val, d. 22, kv. 17)

Primary cancer of the liver. Vop. onk. 5 no.1:74-79 '59. (NIRA 12:3)

1. Iz Glavnogo voyennogo gospitalya imeni N.N. Burdenko.

(ZIVER NECPLASMS, case reports, primary cancer (Rus))

(MIRA 12:12)

KHAZANOV, A.I., kand.med.nauk, podpolkovnik meditsinskoy sluzhby; GAZOVA, Z.A. Experience with gastroscopy in gastric ulcer. Voen.-med.zhur. no.8: 74-76 As 159.

(PEPTIC ULCER, diagnosis) (GASTROSCOPY)

GAZOVSKAYA, N. I., DRYAGINA, I. V.

Importance of summer shading of citrus trees in Crimea. Bokl. Ak. Sel'khoz., 17, No 7, 1952.

GAZPARYAN. A.M., professor (Leningrad); PUTEL', A.Ya., professor (Moskva)

"Renal calculi" by V.I. Vorobtsov. Reviewed by A.M. Gasparian, A.IA.
Putel'. Urologia no.4:86-88 D-D '55. (MIRA 9:12)

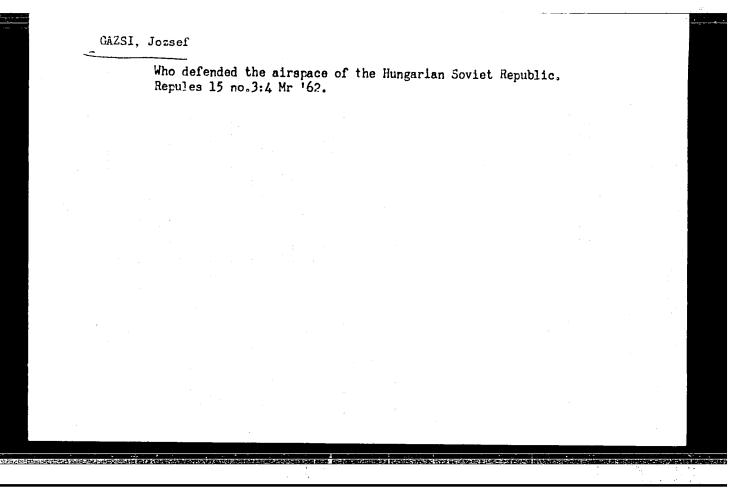
(CALCULI, URINARY) (VOROBTSOV, V.I.)

(MIRA 15:8)

GAZSE, M.N.

Dependence of the properties of low-alloy chromium-nickel steel on the chromium-content. Trudy Inst.met. no.10:188-193 162.

(Chromium-nickel steel—Testing)



ACCESSION NR: AP5014278

AUTHOR: Csomor, S. (Chemer, Sh.) (Doctor); Nagy, J. (Nadt, I.); Gazso, J. (Gazho, I.)
(Doctor); Warga, J. (Varga, I.)(Doctor)

TITLE: Changes in the resistance of erythrocytes and thrombocytes to ultrasound
during radiation treatment of women with cancer

SOURCE: Magyar radiologia, no. 6, 1964, 351-354

TOPIC TAGS: radiology, ultrasonic vibration

ABSTRACT: (Authors' English summary modified) During the radiation treatment of
women suffering from carcinoma, the ultrasound resistance of erythrocytes remained
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GAZSO, Lasslo; ROSTAS, Lasslo; SZUHAI, Geza

Wall panel structure of the Grinding Mills at Mad. Magy ep ipar 12 no.2:70-76 '63.

GAZSO, Laszlo, statikus; SZABO, Janos, epitesz

The Nagyerdo swimming pool in Debrecen. Magy ep ipar 14 no.3: 149-153 '65.

1. Nebrecen Designing Enterprise of the Ministry of Construction, Debrecen.

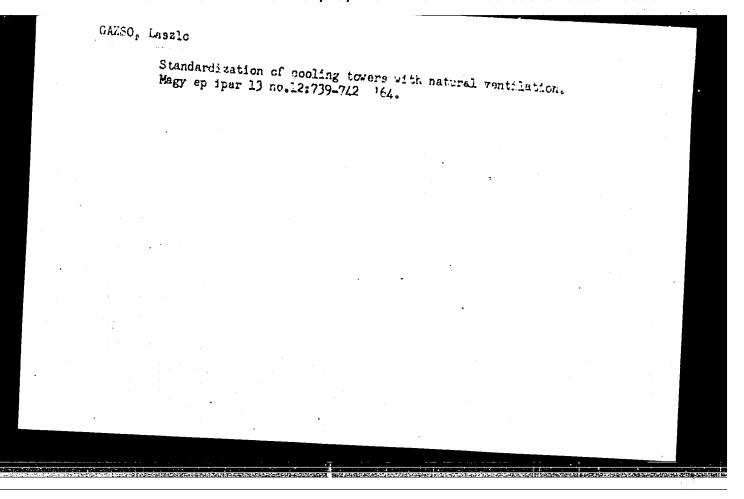
TORO, I.; PALYI, I.; GSANO,I.; GAZZO, I.

Microcinematographic studies of the epithelial calls of the thymus. Acta morph. Acad. sci. Hung. 13 no.1:51-73 142

1. Department of Histology and Embryology (Directors Prof. 1. Toro), University Medical School, Budapest, and Marphological Department( Heads Prof. I. Toro), institute of Experimental Medicine, Hungarian Academy . Sciences, Budapest (Directors Prof. I. Rusznyuk).

ACC NR: AP6027961	SOURCE CODE:	HU/0017/66/	/000/003/0161/21	.66
AUTHOR: Csatkai, Denes; Gazso, Miklos			<b>`</b>	
ORG: none			•	
TITIE: Principles of the calculation of	gravimetric plu	umb-line defl	ections	
SOURCE: Geodezia es kartografia, no. 3,	1966, 161-166		•	
TOPIC TAGS: gravimetry, gravimetric anal	ysis.			
ABSTRACT: A review was made of the basic volved in the computation of gravimetric problems of gravitation reduction and the were discussed and a simplified technique culation of the internal zones. The solution of the gradient technique and with nique was also described. [JPRS: 36,844]	plumb-line def e effects of in was described tion of the inne	lections. The ternal zones for the cal-		
SUB CODE: 20 / SUBM DATE: none / OR	IG REF: 009 /	OTH REF:	002	
Card 1/1		UDC:	528.241	
		091.7	1676.	* * * . · · ·

"Some Medical and Biological Problems of Manned Space Flight"
report presented at the 13th Intl. Astronautical Federation Congress (IAF)
Varna, Bulgaria, 23-29 Sep 1962



H/016/62/000/011/001/001 D249/D308

AUTHORS:

Yazdovskiy, V.I. and Gazulov, S.A.

TITLE:

Some medical and biological problems of manned

space flights

PERIODICAL:

Fizikai Szemle v no. 11. 1962. 349-351

TEXT: The present work is a lecture given at the XIIIth International Astronautical Conference at Várná. Perspectives of research can be classified into a) the effect of space conditions on living organisms, b) the provision of living conditions during the flight, and c) study of the conditions and forms of extraterrestrial life. Point a) may be subdivided into: 1) aspects connected with the flight dynamics, e.g. acceleration, vibration, noise and weightlessness, 2) aspects arising from the properties of interplanetary space (radiation, compositions of different gas media, lack of pressure, intensity of electromagnetic field), 3) psycho-physicological and hygenic aspects of the conditions inside the space ship. Attention is concentrated on the effects of prolonged weightlessness,

Card 1/2

Some medical and biological ...

H/016/62/000/011/001/001 D249/D308

cosmic radiation and on the reaction of the human organism to nervous and mental stress. A brief survey is given of some medical observations made during the flights of Soviet spacemen.

ASSOCIATION:

Szovjetunió Orvostudományi Akadémiája (Academy of Medical Sciences, USSR)

Card 2/2

GAZUREK, R.

Cost of reinforcing surfaces by a tar and water plaster. p. 120, V. 10, no. 5

May 1955, DROGOWNICTNO

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955

Uncl.

GAZUREK, R.

GAZUREK, R. The twilight of stone road foundations. p. 197. Vol. 11, no. 8, Aug. 1956. DRCGCWNICTNO. Warszawa, Poland.

SOURCE: East European Accessions List (EEAL), Vol. 6, No. 4--April 1957

GAZUREK, R.

Asphalt-water mortar. P 55

DROGOWNICTWO. (Wydawnictwa Komunikacyjne) warszawa, Poland. Vol. 14, no. 3, March. 1959

Monthly List of East European Accessions (EEAI) LC. Vol. \$, no. 7, July 1959

Uncl.

GAZUREK, Rudolf, mgr.,inz.

Tar and water filler. Drogownictwo 17 no.3:58-61 '62.

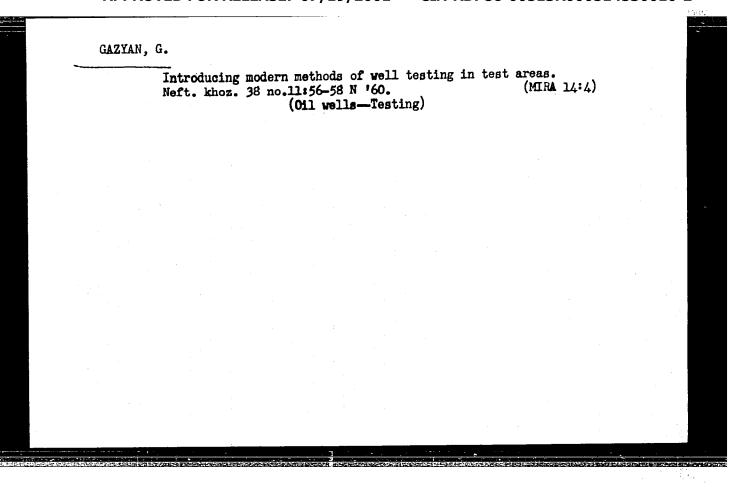
Cardiac echinococcosis. Enirurgita, Sofis 8 no.1:81-82 1955.

(HEART DISEASE, echinococcosis)
(ECHINOCOCCOSIS, heart)

GAZVINOV, A.G.

Economic efficiency of a field and centralized drying and cleaning of raw cotton. Za tekh. prog. 3 no.7:47-48 Jl '63.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut ekonomiki sel'skogo khozyaystva (VNIIESKh).



GAZYAN, G.

Give greater attention to the development of instruments for hydrodynamic investigations of reservoirs and wells. Neft. khoz. 41 no.6:58-61 Je \*63. (MIRA 17:6)

First Siberian and Gas Prospe	Conference of Coting. Geol.	on Testing Explorat , nefti i i gaza 5	sting Exploratory Wells in Oil iti i i gaza 5 no. 1:62-63 '61. (MIRA 14:1)	
(Petroleur	geology)	(Gas, NaturalGe	oology)	
•				
		•		

GAZYAN G.S., kandilat tekhnicheskikh nauk; ESKIN, M.G.; KORSHUNOV, Ye.S.;
OSTROVSKIY, Yu.I.; ROMANOVA, Ye.I.

Hechanization of bit feeding. Trudy TSIMTnefti no.1:3-22 '54.

(MLRA 10:9)

(Oil well drilling--Equipment and supplies)

GAZYAN, G.S.

Bases of an efficient method of tapping and testing layers in the process of drilling test holes. Geol. nefti i gaza 6 no.1: 48-52 Ja '62. (MIRA 15:1)

l. Vsesoyuznyy nauchno-isaledovatel'skiy geologorazvedochnyy neftyanoy institut.

(Boring)

GAZYAN, G.S.; PALIY, P.A.

Current designs of testers. Neft. khoz. 39 no.12:24-29 D '61.

(NIRA 14:12)

(Oil wells—Testing)

GAZYAN, G.S.

Method of the determination and estimation of oil and gas potentials in boring. Sov. geol. 5 no.7:148-151 J1 162. (MIRA 15:7)

1. Vsesoyuznyy nauchno-issledowatel skiy geologorazvedochnyy neftyanoy institut.

(Petroleum geology) (Gas, Natural—Geology)

GAZYAN, G.S.

State of the development of new designs for samplers for deep prospecting holes. Razved. i okh. nedr 28 no.9:41-45 S '62. (MIRA 15:9)

1. Vsesoyuznyy nauchno-issledovatel skiy geologorazvedochnyy neftyanoy institut.

(Prospecting--Equipment and supplies)

GAZYMOV, M.M.

Surgical treatment of goiter. Kaz.med. zhur. no.5:48-49 S-0:63

(MIRA 16:12)

1. Glavnyy vrach Leninogorskoy bol nitsy.

BUYANOV, Yu.D., inzh.; GAZYZOV, M.S., inzh.; DAVIDENKO, Yu.K., inzh.;
DIOMIS'YEV, A.I., inzh.; DEMIN, A.M., inzh.; KARPINSKIY, N.Te.,
insh.; RAZMYSIOV, Yu.S., kand.tekhn.nauk; SERIPEA, L.V., kand.
tekhn.nauk; TULOVSKIY, M.V., inzh.; YAMSHCHIKOV, S.M., inzh.;
OKHRIMENKO, V.A., red.izd-va; BERIOV, A.P., tekhn.red.

[Problems in open-cut mining of coal] Voprosy otkrytci razrabotki
ugol'nykh mestorozhdenii. Pod obshchei red. IU.S.Razmyslova.
Moskva, Ugletekhizdat, 1957. 338 p. (MIRA 11:4)

(Strip mining) (Goal mines and mining)

MAYEVSKIY, Iven Vasil'yevich, doktor ekonom.nauk; KAN, Aleksandr Viktorovich; GAZYAN, Georgiy Sameonovich; ALEKHIN, Leonid Grigor'yevich; KUZNETSOV, P.V., red.; POHOMAREVA, A.A., tekhn.red.

[Mechanization and automation form the basis for increasing labor productivity] Mekhanizatsiia i avtomatizatsiia - osnova rosta proizvoditel'nosti truda. Pod obshchei red. I.V.Maevskogo. Moskva. Gosplanizdat, 1960. 200 p. (NIRA 1473) (Industrial equipment—Technological innovations)

3011;7 s/608/61/000/000/002/007 B139/B102

9.2100 (1001, 1159, 1385,1137)

AUTHORS:

Gazyev, Sh. M., Aripov, G.

TITLE:

Results of gamma irradiation of radiotechnical parts

SOURCE:

Nekotoriye voprosy prikladnoy fiziki, 1961, 49 - 50

TEXT: The fact that the mechanical and electrical properties of materials and parts used in radio engineering can be modified by gamma irradiation has been utilized by the authors to study the behavior of radio sets in radiation fields and to develop radiation-resistant sets. At the Institut yadernoy fiziki AN UzSSR (Institute of Nuclear Physics AS Uzbekskaya SSSR) a series of resistors (types BC -0,25 (VS-0.25), BC-0,5 (VS-0.5), BC-1,0 (VS-1.0), BC-2 (VS-2), MJT-0,5 (MLT-0.5), MJT-1,0 (MLT-1.0), MJT-2 (MLT-2), VJM-0,12 (ULM-0.12)) were irradiated with gamma rays, one low-ohmic and one high-ohmic resistor of the same type in each experiment. The parameters were measured before and after gamma irradiation in a pit at a dose rate of 1.0.1.60 g, 650 rep/sec before and after gamma irradiation. The initial integral dose amounting to 100.106 rep was increased to 1100.106 rep in intervals of 100.106 rep. Measurements showed that the conductivity of all  $\nu$ Card 1/2

KOSIC, Vejislav, sanitetski pukovnik, dr.; ARSENIJEVIC, Milan, sanitetski pukovnik, prof. dr.; KANDIC, Branko, sanitetski pukovnik, doc. dr.; GBESA. Branko, sanitetski potpukovnik, doc. dr.

Acute carbon monoxide poisoning in the mine Banovici. Vojnosanit pregl. 21 no.3:157-164 Mr '64.

1. Klinika za unutrasnje bolesti i Klinika za dusevne i zivcane bolesti, Vojnomedicinska akademija u Beogradu.

GBEV

BUIGARIA / Microbiology. General Microbiology.

F-1

: Rof Zhur - Biol., No 20, 1958, No. 90767 Abs Jour

: Toshkov, As.; G'bov. B. Author

: Division of Biological and Modical Sciences, Academy Inst

of Sciences, Bulgaria

: Antibacterial Action of a Docoction of Dog Rose Galls Titlo

on Whooping Cough Bactoria

: Izv. Otd. biol. i med. nauki. B'lg. AN Sor. eksporim. Orig Pub

biol. i mod., 1957, No 1, 101-109 (Bulg.; ros. Russ. Gor.)

: Decoction of dog roso galls showed a bacteriostatic action Abstract

on whooping cough and dysontory bacilli, staphylococci, and stroptococci. For troatment of patients with whooping cough a "parodin" proparation was tried, the composition of which included a 60% sugar syrup of a decection of deg roso galls, fruits of the pimpornel, anise, and Christs-

Thorn; in the same way decections of mistletee and other

Card 1/2

BULGARIA / Microbiology. Sanitary Microbiology. Sanit- F ary Miorobiology of the Air.

Abs Jour: Ref Zhur-Biol., No 2, 1959, 5558.

Author : G"bay. Ye.
Inst : Bulgarian AS. Section of Biology and Medical

Science.

Title : Some Studies in Air Disinfection.

Orig Pub: Izv. Otd. biol. i med. n. B"lg. AN. Ser. eks-

perim. biol. i med. 1957, No 3, 129-138.

Abstract: No abstract.

Card 1/1

GBINERIYA, K.I.; MARGVELASHVILI, O.V.

Method for determining the size of the auxiliary tank for automobile air springs. Soob.AH Gruz.SSR 24 no.5:571-578 My 160. (MIRA 13:8)

1. Institut mashinovedeniya AN GruzSSR, Tbilisi. Predstavleno akademikom R.R. Dvali.

(Automobiles—Springs)

GBOZDUKHIN, S. YE., Cand Agric Sci -- (diss) "Yield of perennial grasses in relation to the methods of sowing and the composition of grass mixtures in the conditions of the Udmurt ASSR) Moscow, 1957, 14 pp (Moscow Agricultural Academy im K. Z. Timiryazov), 110 copies (KL, 36-57, 106)

GBOZDYAK, R.I.

Effect of serobic sporeforming bacteria, isolated from wheat and barley rhizospheres, on seed germination and growth of the plants. Mikrobiol.zhur. 19 no.4:40-44 '57. (MIRA 11:1)

1. Kiivs'kogo derzhavnogo universitetu im. T.G.Shevchenka, kafedra mikrobiologii ta antibiotikiv. (RHIZOSPHERN MICROBIOLOGY)

(WHEAT) (BARLEY)

# GBURCIK, P.

Determining nondivergent heights. p. 1

YUGOSLAVIA. HIDROMETEOROLOSKA SLUZBA. VESNIK. Beograd, Yugoslavia. Vol. 7, no. 1/2, Jan./June 1958

Monthly List of East European Accession (EEAI) LC, Vol. 8, no. 6 June 1959 Uncl.

JANOWSKI, T. M.; GBURCZYK, J.; PUSTKLNIK, J. (Krakow)

Preliminary studies on the influence of microclimate factors upon the fertility of bulls. Rocs nauk roln wet 70 no.1/4:366-367 60.

(Bulls) (Pertility)

#### GBUREK, Alina

Influence of Priscol on intrabulbar pressure level. Klin. oczna 32 no.3:245-248 '62.

1. Z Kliniki Okulistycznej Slaskiej AM w Zabrzu Kierownik: prof. dr med. M. Madroszkiewicz.

(TOLAZOLINE) (INTRAOCULAR PRESSURE)

GBUREK, Zbigniew; WOLANSKI, Adam; KUBIK, Wiktor

Neurological complications in rheumatoid arthritis (rheumatoid neuropathy). Reumatologia (Warsz.) 1 no.3-4:305-311 '63.

1. Z I Kliniki Chorob Wewnetrznych Sl. Akademii Medycznej w Katowicach (Kierownik: prof. dr J. Japa) i z Oddzialu Neurologicznego PSK 4 w Katowicach (Kierownik: dr K. Golonka).

POLAND

WCLAYSKI, Adam: GEIRTK, Zbigniew and SZACHOWSKI, Jedrzej; First Clinic of Internal Diseases (I Klinike Chorob Wewnetrznych) Sl AM /Sleeke Akademia Medvozna -- Silosian Hedical School/ in Katowice: Director: Prof Dr Josef JAPA.

''The Treatment of Diebetes Insipidus and Polydipsia with Chlor- and Hydrochlorthiazide. Report on 4 Cases''

Warsaw, <u>Polski Tygodnik Lekarski</u>, Vol XVIII, Po 7, 11 Fob 1963, pp255-259

Abstract: /Authors: English summary modified/ The report deals with 3 cases of diabetes insipidus and 1 case of polydipsia treated with the thiaside preparates. Thirst diminished and electrolyte excretion increased during the treatment. Weight loss was found on the first day. Decrease of divines appeared on the 2nd or 3rd day of treatment. Decrease of glorerular filtration was observed at the same time. In 2 cases of diabetes insipidus the climumic effect of ''Tridrex''

FOLTA, Marian; GBUREK, Zbigniew

Primary aseptic necrosis of the femoral head as a cause of degenerative changes of the hip joint. Reumatologia (Warsz.) 3 no.3:263-267 '65.

1. Z Kliniki Ortopedycznej Slaskiej AM w Bytomiu (Kierownik: prof. dr. med. G. Weisflog) i z I Kliniki Chorob Wewnetrznych Slaskiej AM w Katowicach (Kierownik: prof. dr. med. J. Japa).

BATKO, Brominlaw; GHERDE, Zbigniow

An atypical case of psoriatic arthropathy. Wind. lek. 18 nc.17: 1417-1421 1 S \*65.

1. % Oddsialu Chorob Wownetrznych Szpitala Wojekowego w Gliwicach (Ordynater: dr. med. B. Batko).

BATKO, Bronislaw; GBUREK, Zbigniew

Diagnostic difficulties in a case of acute diffuse necrosis of the liver without jaundice. Wiad. lek. 18 no.5%429-434 1 Mr '65

1. Z Oddzialu Chorob Wewnetrznych Szpitala Wojskowego w Gli-wicach (Ordynator: dr. med. B. Batko).

GBURKOWA, Alina; POJDA, Stefan Marian

Clinical observations on the use of demecarium bromide in glaucoma. Pharmacologic properties of demecarium and physostigmine in experiments. Klin. oczna 35 no.2:207-212 '65.

1. Z Kliniki Chorob Oczu (Kierownik: prof. dr. med.
M. Madroszkiewicz) i z Zakladu Farmakologii Akademii Medycznej w Katowicach (Kierownik: doc. dr. med. T. Chrusciel).

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L 20255-63 'EWT(1)/BDS/ES(v) AFFTC/ASD/AFMDC/ESD-3/APGC Po-4/Po-4 G	₩.
ACCESSION NR: AT3007031 S/2560/63/000/017/0066/0081	为
AUTHOR: Impanitov. I. M.; Gdalevich. G. D.; Shvarte. Ya. H.	D.
TITLE: Measurement of electrostatic field intensity at the surface of geophysical rockets moving in upper atmospheric layers	
SOURCE: AN SSSR. Iskusst. sputniki Zemli, no. 17, 1963, 66-81	
TOPIC TAGS: electrostatic field intensity, field intensity,	
electrostatic field, geophysical rocket, rocket, ionospheric	١.
electrostatic field, ionospheric current	
ABSTRACT: A discussion is presented of methods used to measure electrostatic field intensity at the rocket surface during flights	
of nonstabilized geophysical rockets on 14 July 1959, 15 June 1960	•
and 24 June 1960 and during flight of a stabilized geophysical	
rocket on 15 November 1961. The basic measuring circuit is shown in Fig. 1 of the Enclosure, diagrams of the sensing elements, in	1
in Fig. 1 of the Enclosure, diagrams of the sensing elements, in Figs. 2 and 3. Disk-shaped measuring plate 1 (Fig. 2) was	•
situated at the rocket surface and responded to the local space	
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ACCESSION NR: AT3007031

charge in the vicinity of the rocket. Rotating and fixed slotted disks 2 and 3 were located above the sensing disk; the rotating disk was spun at 900 cps to give a chopped output signal in load resistor R proportional to the field intensity. (A cross section of the entire pickup assembly is included, showing mounting details of the disks and the drive motor; fabrication details are also given.) The distance between the measuring and rotating disks was 1.5 mm and between the measuring and fixed disks 5 mm. The effective area of the sensing disk was about 24 cm2. The drive motor also drove a generator whose output served as the reference voltage for synchronous detection; during calibration, the rotating disk could be adjusted with respect to the rotor to give optimum signal-to-noise operation in the synchronous detector. The most interesting results were those obtained on 15 November 1961 with the stabilized rocket, which attained the highest altitude (430 km) and had the smallest measurement errors. The full scale of its field sensing equipment was +6 v x cm-1, and the sensitivity threshold was 0.06 v x cm-1. Preliminary tests had shown that the error of the device did not exceed 5% or 0.3 v x cm

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L 20255-63

ACCESSION NR: AT3007031

In addition to the field sensors, a current pickup was installed to register charges not intercepted by the sensors. The current sensitivity threshold was  $10^{-9}$  amp x cm<sup>-2</sup>, which was not actually reached during the 15 November flight. The pickups were placed at diametrically opposed points on the cylindrical part of the rocket, pickup 1 facing north and pickup 2 facing south at approximately one-third the distance from the rocket nose. Solar rays fell on pickup 2 at an angle of 4°, while pickup 1 remained in the shade. Measurements showed that the rocket was negatively charged throughout the recorded period. At all altitudes, except for a small sector between 100 and 120 km, field intensity at the rocket surface remained almost constant at 1.5 to 1.6 v x cm-1; within the same altitude range, the depth of the space charge varied within 1.2-5 cm at a temperature of 1000K, and within 1.7 - 7 cm at a temperature of 2000K. Results of measurements made for the nonstabilized rockets confirm those obtained for the stabilized rocket and suggest the existence of a significant electrostatic field in the regions studied. "The authors thank K. I. Gringaus for discussing the results of the investigation

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GDALEVICH, G.D.

AID Nr. 967-9 15 May

ELECTROSTATIC FIELD INTENSITY OF THE SURFACE OF A GEOPHYSICAL ROCKET (USSR)

Imyanitov, I. M., G. D. Gdalevich, and Ya. M. Shvarts. IN: Akademiya nauk SSSR. Doklady, v. 148, no. 6, 1963, 1306-1308. S/020/63/148/006/013/023

The electrostatic field intensity near the surface of a geophysical rocket launched 15 November 1961 was measured by means of an electrostatic fluxmeter. The equipment measurement range was  $\pm 6$  v/cm. The readings of two symmetrically placed fluxmeter pickups, although differing from each other, showed that field intensity undergoes relatively slight variations with altitude. The intensity value measured by one of the pickups varied within the range of 0.5 to 1 v/cm, and that of the other from 1.8 to 2.5 v/cm. The second pickup was illuminated by the sun at an angle of  $4^{\circ}$  throughout the flight, while the first remained in the shade. The electric field intensity corresponding to the charge on the rocket itself had an average value of 1.5 v/cm. After taking into account measurement errors and inaccuracies in the determination of the real value of

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AID Nr. 967-9 15 May

ELECTROSTATIC FIELD INTENSITY [Cont'd]

s/020/63/148/006/013/023

intensity, the average value of the electrostatic field produced by the charge of the rocket was found to be < 2 but > 1 v/cm, i.e., the rocket had a negative charge. Measurements of electron concentration, together with data on field intensity, made it possible to determine that the potential produced by the rocket's own charge amounted to several volts. At an altitude of 200 to 300 km, it was determined that the electric field was < 3.6 but > 1.6 v/cm according to the second pickup and < 1.2 but > 0.1 v/cm according to the first pickup. It was concluded that during the experiment an electric field intensity of the order of 10<sup>-3</sup> v/cm existed in the ionosphere. [DW]

Card 2/2

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s/560/62/000/013/006/009 1046/1242

9.4120

AUTHORS:

Gringauz, K.I. and Gdalevich, G.L.

TITLE:

Analysis of the results of simultaneous measurements of electron concentration in the ionosphere with the aid of ionospheric stations and rockets

SOURCE:

Akademiya nauk SSSR. Iskusstavennyye sputniki

Zemli. no. 13. Poscow, 1962, 89-96

In the first park altitude-frequency characteristics are obtained by numerical integration of the basic equation  $\frac{H}{L}$ , making use of the experimental  $n_e(h)$ -curves recorded Here Ha is the "actual" attitude of reflection, Hon rockets.

Card 1/2

CIA-RDP86-00513R000514530010-2" **APPROVED FOR RELEASE: 07/19/2001** 

## GDALEVICH, G.L.

Measurements of the electrostatic field intensity at the surface of a rocket flying in the ionosphere. Dokl. AN SSSR 146 no.5:1064-1067 0 162. (MIRA 15:10)

1. Predstavleno akademikom A.L.Mintsem.
(Atmosphere, Upper-Rocket observation)

CONDITION B. N.; SHUTTE, N. M.; GDALEVICH, G. L.

"Some Experiments on the Satellite COSMOS-2"

Report presented at the Ath International Astronautics Congress, Paris, France, 25-Sept- 1 Oct 1963.

ACCESSION NR: AP4016061

P/0048/63/000/004/0002/0004

AUTHOR: Gringauz, K. I.; Gorozhankin, B. N.; Shutte, N. M.; Gdalewicz, G. L.

TITLE: Some experiments carried out aboard the satellite "Cosmos-2"

SOURCE: Astronautyka, no. 4, 1963, 2-4

TOPIC TAGS: ionospheric satellite measurement, solar ultraviolet radiation measurement, photoelectric current measurement, ionospheric research, positive ion measurement, photoelectron emitter, artificial earth satellite instrumentation, retarding potential

ABSTRACT: The article gives additional results of experiments carried out aboard "Cosmos-2" (launched 6 April 1962), involving measurements of the density of positive ions surrounding the satellite. The results of these measurements provide additional support for the hypothesis that the structure of the ionosphere has undergone considerable change since the period of maximum solar activity, probably owing to the cooling of the upper atmosphere, which caused a drop of the heavy constituents in the ionosphere. In addition, the article describes another experiment, designed to investigate the electric currents induced in emitters of photoelectrons by solar ultraviolet radiation. An analysis of the photoelectric currents

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of the emitters at vario tion of the absorption o art. has: 7 figures.	us altitudes and retar f solar ultraviolet ra	rding potential	ls permitted sionospere.	an evalua- Orig.	
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EWT(1)/EWG(k)/BDS/ES(b)-2/ES(v) L 17808-63 ESD-3/APGC/IJP(C)/SSD Pz-4/Pt-4/Pe-4/Po-4 AT/GW/K ACCESSION NR: AT3007029 \$/2560/63/000/017/0042/0058 AUTHOR: Gdalevich. G. L. TITLE: Measurement of electrostatic field intensity on a rocket surface during its flight through the ionosphere SOURCE: AN SSSR. Iskusst. sputniki Zemli, no. 17, 1963, 42-58 TOPIC TAGS: rocket, ionosphere, ionospheric electric field, surface charge, ionospheric space charge, space charge, fluxmeter, electrostatic fluxmeter, rocket surface charge ABSTRACT: The problem of measuring the surface electrostatic charge acquired by a rocket passing through the ionosphere is discussed. An apparatus is described which was used for this purpose on three geophysical rocket flights, and the resulting data are analyzed. The theoretical model assumes that a body rising through the ionosphere accumulates a net charge since the velocity of electrons encountered is several orders of magnitude greater than positive ion velocity, and that a corresponding space charge is created for some distance out from the body. It is suggested that the Card 1/5

L 17808-63 ACCESSION NR: AT3007029

2/5

charge should be fairly uniform over the surface of a stabilized (nonrotating) rocket and should be relatively constant in magnitude in comparison to the large variations in both concentration and stemperature of the charge particles through which it moves. The apparatus used for sensing the surface electrostatic field consisted of two fluxmeters placed on opposite sides of the rocket. The d-c output voltage of each was chopped, amplified, and fed to a synchronous detector and (via cathode followers) to telemetry channels. The fluxmeter was formed from an active disk and a shielding disc placed 3 mm apart and made of nickel-plated brass. Each disk was slotted into six equal sections with the shield disk being rotated at 9000 rpm by a synchronous motor. The same motor drove a 6-pole magneto which generated the reference voltage for the detector. The circuitry also included an automatic sensitivity switch which was activated by variations in the sensed field strength. Overall output was 0.1 v for a measured field intensity of 0.2 v/cm. Vacuum tubes were used throughout and all units were environmentally tested under vibration, acceleration, and temperature extremes prior to flight. With the above apparatus on board,

L 17808-63 ACCESSION NR: AT3007029

rocket flights were made in September 1957, February 1958, and August 1958. In the August 1958 flight the rocket was roll stabilized and its field intensity was recorded up to a distance of 450 km as shown in Fig. 1 of the Enclosure. Analysis of recordings from all three flights shows that the rockets acquired a generally negative charge estimated at 5 x 10<sup>-5</sup> to 10<sup>-3</sup> CGSE/cm<sup>2</sup> and leads to the following conclusion: After allowing for measurement error and possible charge effects from solar radiation, ionospheric winds, and rocket motion, the only model that satisfies all observed data is that of an external electrostatic field. This r could appear in the form of either ionospheric currents or a local space charge arising around the rocket, which causes the charging phenomena. A schematic of the charge measuring circuitry is included. "The author expresses his gratitude for the supervision of K. I. Gringauz and I. M. Impanitov and his thanks to V. I. Zhdanov and V. A. Kraynev for help in preparing the apparatus. Orig. art. has: 7 figures and 10 formulas.

Cord 3/5

L 10276-63 BDS/EWT(1)/FS(v)/EEC-2/ES(v)/ES(t)-2-AFFTC/AFMDC/AFGC/ASD/ESD-3/SSD--Pe-4/Pg-4/Pi-4/Ph-4/Ph-4/Po-4/Pg-4-GV/BC/WR/AST ACCESSION NR: AP3000990 S/0109/63/008/006/0942/0949

AUTHOR: Gdalevich, G. L.; Gringauz, K. I.; Rudakov, V. A.; Ry\*tov, S. M.

TITLE: Effect of the <u>ionosphere</u> on the <u>position finding of space rockets</u> Report of the <u>Thirteenth International Astronautical Congress</u> held in Varna September 1962

SOURCE: Radiotekhnika i elektronika, v. 8, no. 6, 1963, 942-949

TOPIC TAGS: space rocket, effect of ionosphere

ABSTRACT: Some ideas are set forth about calculating the errors caused by the ionosphere in determining coordinates and speed of space rockets by radio means. Assuming a geometrical-optics approximation and measurements at frequencies over 5 x 10 sup 7 cps, formulas are derived for the ionosphere-caused errors in determining range, elevation, and speed of rockets. The rocket is assumed to be in outer space, and errors due to the troposphere and interplanetary plasma are neglected. Approximation of the real altitude distribution of electron concentrations is discussed for purposes of evaluating the above errors. Western and Soviet data on electron concentrations are compared. Orig. art. has: 9 formulas and 6 figures.

Card 1/2/

IMYANITOV, I.M.; GDALEVICH, G.L.; SHVARTS, Ya.M.

Measurement of the electrostatic field strength on the surface of geophysical rockets. Dokl. AN SSSR 148 no.6:1306-1308 F 163. (MIRA 16:3)

1. Predstavleno akademikom A.L.Mintsem.
(Electrostatics) (Rockets in meteorology)

EFF( ) (EV) (1)/LAT (m)/FCC(w)/TS(v)/EDS/ELC-0/ AFFT C/AFMDC/ESD-3/AFGC/SSD Proh/Pg-4/Pi-4/P1-4/Po-4/Po-4/Pe-4 17/18/GI 8/020/63/151/003/0560/0563 ACCESSION NR: AP3003851 AUTHOR: Gringmuz, K. I.; Gorozhankin, B. N.; Shyutte, N. M.; Gdalevich, G. L. TITIE: Altitude distribution of charged particles in the ionosphere and the transfer region between oxygen and helium ion layers, from ion trap data taken by the Cosmos II satellite SOURCE: AN SSSR. Doklady\*, v. 151, no. 3, 1963, 560-563 TOPIC TAGS: Cosmos satellite, Cosmos II, ionosphere, ionospheric oxygen, iono4 spheric helium, ionized layer, ion transfer region, ion density, ion concentration, mass spectroscope, mass spectrograph ABSTRACT: The ion traps used in the flight of Cosmos II, which was launched in April, 1962, are described briefly, and some conclusions are drawn from data produced by them about the relative densities of He+ and O+ ions in the upper iono-sphere. One trap was of the planar type, containing three electrodes and having its input grid at satellite skin potential; eight of these were located evenlyspaced over the satellite surface. The second type was a spherical trap, which was fixed to a boom 65 cm long in order to position it outside the plasma sheath

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of the satellite. In the latter type the input grid was swept with a dualpolarity sawtooth voltage of 2-sec duration. Both trap types used suppressor grids next to the collectors to minimize photo- and secondary-emission effects. The collector current registered in the traps could be stored and later interrogated at rates up to 12 times a sec when the satellite was in range of Soviet tracking stations. Sample graphs for several orbits are given which show the variation in total positive ion density as a function of satellite altitude based on data from the planar traps. The graphs verify the general decrease in positive ion density with altitude found by earlier U.S. and Soviet satellites. but reveal a significantly higher dropoff rate above the altitude of maximum ion: density. This is confirmed by data from the spherical traps, in which the slope of the volt-ampere characteristic was used in conjunction with mass spectrographs to relate ion concentration to respective mass number. By assuming that only 0+ and He+ need be considered, the total ion concentration at any orbital altitude was thus divided between these two, showing 0+ dominating at lower levels ( = 520 km) and giving way to He+ at increased altitudes ( = 620 km). The sharp dropoff in density as well as the appearance of dominant He+ at lower altitudes than heretofore noted suggest that the ion transfer region was significantly lower at the time of the Kosmos flight than in the 1958-1960 period.

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their gratitude to G. N. Zl processing the results of t	educed solar activity in 1962. "The cotin and I. D. Dmitriev for their such experiments." The article was I teb. 1963. Orig. art. has: 2 figur	substantial aid in presented by Acad-	
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IMTANITOV, I.M.; GDALEVICH, G.L.; SHVARTS, Ya.M.

Measurement of the electrostatic field strength near the surface of geophysical rockets moving in the upper atmosphere. Isk.sput.—

Zem. no.17:66-81; '63. (MIRA 16:7)

(Electric fields—Neasurement)

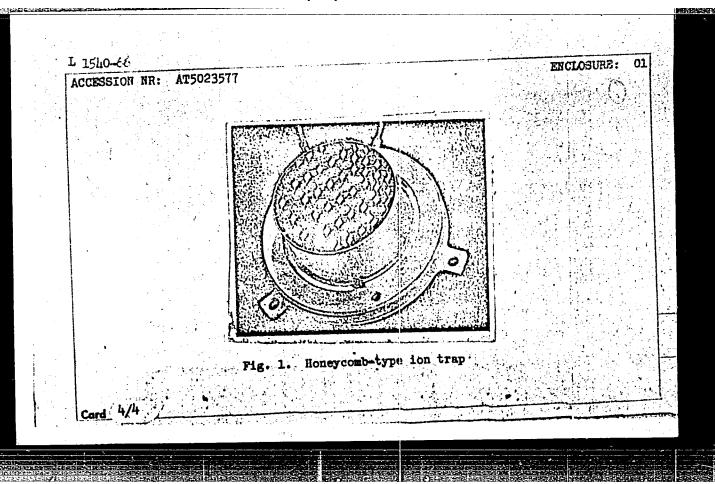
(Atmosphere—Rocket observations)

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ybchinskiy, R. Ye.; Gringauz, K. I.	Against the first formal his arrive to the same		
55 TITLE: Kosmos-2 ionosphere experiments			60. W
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OURCE: Vsesoyuznaya konferentsiya po	Tizike Kibemicheek	ogo proseranstva.	onferents!
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oscow, Izd-vo Nauka, 1965, 151-167			
COPIC TAGS: artificial earth satellite	. ionosphere. ion	osphere compositi	on, iono-
pheric plasma, ion temperature, electron	on temperature. i	on trap, honeycon	b trap,
metal photoemission, F region, Kosmos 2		55. 12	
	2,55		
ABSTRACT: The Kosmos-2 artificial eart	h satellite, laun	ched on 6 April 1	962 into
an orbit from 49°N to 49°S (perigee ~21)	.2 km and apogee 🗥	1546 km), was int	ended for
the structural study of the ionosphere	and the attendant	characteristic p	rocesses
therein. In addition to a direct telem	etering system, i	nformation storag	e equip-
ment was installed on board the satelli	te. The principal	, tasks of the sat	ellice veren
) to remeasure the ion concentration a	and the chemical o	composition of the	ionospheric_
region from 500 to 1000 km (first done	in 1958 by the th	ird Boviet Sputn	k) during
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a peaborion narrion (fro tem vel con pho	riod of decreased solar activity; 2) to investigate the re 1000 km under nocturnal and twilight conditions; 3) to temperature by means of a new method using honeycomb-type of directivity pattern; 4) to sound both the ion and elementary plasma in order to measure the electron temperature of plane ion-traps for determining the satellite attitution of plane ion-traps for determining the satellite attitution of three electrodes (collector, antiphotoelectron docurrent on collector surface, and an external honeycome collite). The maximum current in such a trap is achieved	pe ion traps with a very ectron components of the ture and concentration es; and 5) to use a sysde with respect to its. 1 of Enclosure. It grid for suppressing b cap, connected to the when the velocity vector addition to the above
exp sho the	eriments, measurements of the variation in photoemission rt-wave solar radiation in the frequency region near the F-region) were made to determine the total ultraviolet	ionization maximum of absorption in the F-re- Kosmos-2 mission will be
exp sho the gio	eriments, measurements of the variation in photoemission	ionization maximum of absorption in the F-re- Kosmos-2 mission will be

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L 1274-66 EWA(h)/EWT(m)/FCC GW/GS

ACCESSION NR: AT5023581

UR/0000/65/000/000/0189/0192

AUTHOR: Breus, T. K.; Gdalevich, G. L.

9+1

TITLE: Electron and ion temperatures in the ionosphere

SOURCE: Vsesoyuznaya konferentsiya po fizike kosmicheskogo prostranstva. Moscow, 1965. Issledovaniya kosmicheskogo prostranstva (Space research); trudy konferentsii. Moscow, Izd-vo Nauka, 1965, 189-192

TOPIC TAGS: ion temperature, electron temperature, ionosphere, artificial earth satellite, satellite data analysis

ABSTRACT: The authors analyze data from direct measurements of  $T_e$  and  $T_i$  made by "Explorer-8," "Explorer-17," "Allouette-1," "Ariel-1," "Kosmos-1" and by American and Japanese rockets. The results of the analysis show daily variations in the electron temperature up to 1200 km as a function of latitude and altitude. Since the ion temperature was measured in only three experiments, one of which has not yet been published, there was no basis for conclusive results. A maximum in the electron temperature is usually observed in the morning hours immediately after sunrise. The  $T_e/T_i$  ratio is considerable in the maximum region of the F layer and may reach

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conducted). These results ar considerable gradient with al above 400 km are contradictor made about the high-altitude	titude in temperatures up to w for various reasons, so th	o 400 km. Measurements nat no conclusions can be
coherent scattering and measurable that the electron temperature has: 2 figures.	rements made by "Ariel-1" ar	nd "Explorer-17" indicate
ASSOCIATION: none		
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L 3431-66 EWT(d)/EWP(v)/T/EWP(k)/EWP(h)/EWP(1)/ETC(m) WW/GS UR/0000/65/000/000/0271/0274 ACCESSION NR: AT5023597 AUTHORS: Gdalevich, G. L.; Imvanitov, I. M. TITIE: Electrical fields in the ionosphere according to data from direct measurements taken by geophysical rockets SOURCE: Vsesoyuznaya konferentsiya po fizika kosmicheskogo prostranstva. Moscow, 1965. Issledovaniya kosmicheskogo prostranstva (Space research); trudy konferentsii. Moscow, Izd-vo Nauka, 1965, 271-274 TOPIC TAGS: ionosphere, electric field, sounding mocket, geophysic instrument, fluxmeter ABSTRACT: Experiments have been carried out on geophysical rockets to measure directly the electric fields occurring in the lower layers of the earth's atmosphere. Many prominent effects in these regions depend strongly on the magnitude of the stationary electric fields there, but previous estimates of their intensities have been available only on the basis of indirect data to which must be applied theories as yet not fully worked out. The measurements were made with two fluxmeters (G. L. Gdalevich, I. M. Imyanitov, and Ya. M. Shvarts. Kosmicheskiye issledovaniya, 3, No. 1, 102, 1965) located opposite one another Card 1/4